

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

What is claimed is:

Claim 1 (previously presented) A method of adjusting a room air in a first room comprising the steps of:

adding to the room a nitrogen or a nitrogen-bearing, carbon dioxide-poor gas mixture until the proportion of oxygen in the room air is less than 20.9% by volume and the proportion of carbon dioxide of the room air is less than 1% by volume, and

maintaining at least a slight overpressure in the room in relation to an outside atmosphere surrounding the room.

Claim 2 (previously presented) The method of claim 1 further comprising the step of removing air from the room for reconditioning such that the room air is passed in a circulatory air mode.

Claim 3 (previously presented) The method of claim 2, wherein a room air exchange caused by the circulatory air mode in the recreation room is so adjusted that a homogeneous atmosphere prevails in the recreation room.

Claim 4 (previously presented) The method of claim 2, wherein a proportion of carbon dioxide of the room air is replaced in the circulatory air mode by replacement of a proportion of the room air by carbon dioxide-poor air of the outside atmosphere with a normal proportion of oxygen, wherein the proportion of the room air exchanged in the circulatory air mode is so adjusted that the room air maintains a concentration of carbon dioxide below fixed limit values of up to 0.65% by volume.

Claim 5 (previously presented) The method of claim 2, further comprising the step of chemically reducing the proportion of carbon dioxide in the circulatory air.

Claim 6 (previously presented) The method of claim 2, further comprising the step of treating the room air which is passed in the circulatory air mode as required by regulated ionisation in such a way that the room air with a low carbon dioxide content and a reduced proportion of oxygen in relation to the outside atmosphere maintains an air quality which does not differ substantially from the quality of the outside atmosphere over a plurality of circulatory air cycles.

Claim 7 (previously presented) The method of claim 1 further comprising the step of supplementing the room air by mixing the room air with the gas mixture at an overpressure or a reduced pressure.

Claim 8 (previously presented) The method of claim 7 wherein the step of supplementing the room air by mixing the room air with the gas mixture is performed in a mixing chamber to which the components of the gas mixture to be mixed are fed at an increased pressure or a reduced pressure in dependence on the desired gas mixture of the mixing chamber.

Claim 9 (previously presented) The method of claim 7, wherein the gas mixture is mixed from air of the outside atmosphere and nitrogen.

Claim 10 (previously presented) The method of claim 2, further comprising the step of measuring and adjusting at least one of the properties of the circulatory air such as air humidity, air temperature or the like in a regulated fashion.

Claim 11 (previously presented) The method of claim 1, wherein the nitrogen-bearing gas mixture is produced by air separation of air provided from the room air by means of a separation installation.

Claim 12 (previously presented) The method of claim 1, wherein the nitrogen-bearing gas mixture is produced by air separation of ambient air.

Claim 13 (previously presented) The method of claim 12, wherein an oxygen-enriched gas mixture having a proportion of oxygen of more than 21% by volume is produced in the air separation operation and is added to a second room so that the room air in the second room has an oxygen content which is increased in relation to the ambient air.

Claim 14 (previously presented) The method of claim 13, wherein the room air with the increased oxygen content in the second room is treated as set forth in one of claims 1 to 10.

Claim 15 (withdrawn) A recreation room comprising:

a floor and a ceiling separated by at least one wall and forming a room, the room being filled with room air and being adapted to hold at least a slight overpressure in relation to an outside atmosphere surrounding the recreation room, at least for a short period of time,

wherein the recreation room is communicated by way of an air inlet opening and an air outlet opening to a room air installation which is adapted to adjust the room air in the recreation room so that its oxygen partial pressure is lower than the oxygen partial pressure of the outside atmosphere.

Claim 16 (withdrawn) A recreation room comprising:

a floor and a ceiling separated by at least one wall and forming a room, the room being filled with room air and being adapted to hold at least a slight overpressure in relation to an outside atmosphere surrounding the recreation room, at least for a short period of time,

wherein the recreation room is communicated by way of an air inlet opening and an air outlet opening to a room air installation which is adapted to adjust the room air in the recreation room so that its oxygen partial pressure is greater than the oxygen partial pressure of the outside atmosphere.

Claim 17 (withdrawn) An air circulation system comprising:

a first and a second recreation room;

connected to a common room air installation by which the respective room air for each of the recreation rooms is to be treated separately in a circulatory air mode

wherein the common room air installation comprises an air separation unit for separating ambient air into a first gas mixture with a proportion of oxygen which is reduced in relation to the ambient air and a second gas mixture with a proportion of oxygen which is increased in relation to the ambient air;

wherein the room air installation is adapted to combine the first gas mixture with the room air from the first room and recirculate the combined air back to the first room, and to combine the second gas mixture with the room air from the second room and recirculate the combined air back to the second room.

Claim 18 (withdrawn) A room air installation for a recreation room as set forth in claim 15, the room air installation comprising:

a circulatory air passage; and

a pump or blower for moving circulatory air in the circulatory air passage;

a mixing chamber connected in the circulatory air passage and having an air inlet and an air outlet for the circulatory air and an inlet for ambient air from the outside atmosphere and a nitrogen inlet for the feed of nitrogen into the mixing chamber.